Girls' Mathletics - Creative Set (With Answers)

1. Zara picked 420 mangoes. She gave 25% of them to her grandmother. How many mangoes did she give away?

Answer: 105

2. A smoothie is made using a ratio of 3:1 of bananas to strawberries. If 9 bananas are used, how many strawberries are needed?

Answer: 3

3. At a pet clinic, 150 animals were treated. If 60% were cats, how many were cats?

Answer: 90

4. A printing press prints 36 pages per minute. How many pages can it print in 10 minutes?

Answer: 360

5. Find the area of a rectangle with length 12 cm and width 9 cm.

Answer: 108 cm^2

6. How much greater is 75% of 80 than three-fourths of 60?

Answer: 0

7. A shopkeeper earns a 6% commission on sales. What commission does she make on N6000 worth of goods?

Answer: N360

8. A town's population grew in the ratio 4:5 over 3 years. If it started at 80,000, what is it now?

Answer: 100,000

9. Nancy scored 45 out of 50 in Maths, 36 out of 40 in Science, and 72 out of 90 in English. In which did she score the highest percentage?

Answer: Science (90%)

10. Three children share N2400 in the ratio 2:3:7. How much does each get?

Answer: N400, N600, N1400

11. A factory packs 75 bags of flour, each weighing 25.5 kg. What is the total weight packed?

Answer: 1912.5 kg

12. A tower is 96 cm tall. If each block used is 8 cm thick, how many blocks are needed?

Answer: 12

13. A business makes profit in the ratio 1:4 to its revenue. If the revenue is N80,000, what is the profit?

Answer: N20,000

14. If 36 m of ribbon makes 12 bows, how much ribbon is needed for 5 bows?

Answer: 15 m

15. A cake recipe uses ingredients in the ratio 4:2:1 for flour, sugar, and butter. If 8 cups of flour are used, how many cups of sugar and butter are needed?

Answer: 4 cups sugar, 2 cups butter

16. Shola walks 6 km every day. How many metres does he walk in 4 days?

Answer: 24,000 metres

17. A company has a 4:7 ratio of income to expenditure. If income is N280,000, what is the expenditure?

Answer: N490,000

18. A concert hall earns N1200 for every 300 tickets sold. How much is earned from 500 tickets?

Answer: N2000

19. Lola has read 30% of her book. If 210 pages are left unread, how many pages are in the book?

Answer: 300 pages

20. A leaky tap drips 1/4 of a litre in 1/3 of an hour. How long will it take to drip 1 litre?

Answer: 1 hour 20 minutes

21. A laptop cost N300,000 last year. Now it's worth N210,000. What is the percentage decrease?

Answer: 30%

22. A triangle's angles are in a 5:6:7 ratio. Find the largest angle.

Answer: 84°

23. The total age of Tom, Jerry, and Max is 72. What was their combined age 6 years ago?

Answer: 54

24. Tolu is twice as old as Bayo. Kemi is three times as old as Bayo. In 2 years, their total age will be 48. How old is each?

Answer: Bayo = 6, Tolu = 12, Kemi = 18

25. 40% of the students in Teni's class prefer Science. If 18 students prefer other subjects, how many students are in her class?

Answer: 30 students

26. A rectangle has width:length ratio of 1:2. If the perimeter is 60 cm, what is its area?

Answer: 200 cm^2

27. James bought 6 bananas at N80 each and paid N600 in total. How much did he spend on other items?

Answer: N120

28. A field is 4 times as long as it is wide. If the width is 5 m, what is the area?

Answer: 100 m^2

29. The digits in a number are: hundreds = 5; tens = 3 more than hundreds; thousands = 2 less than tens; ones = 1 more than thousands. What's the number?

Answer: 6836

30. A number has 8 ten-thousands, 2 fewer thousands, 5 more hundreds than thousands, and 6 fewer ones than hundreds. What is the number?

Answer: 86,585

31. What number has 7 ten-thousands, 1 fewer thousands than ten-thousands, same hundreds as thousands, 0 tens, and 4 ones?

Answer: 76,604